

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/001897

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01F38/14 H02M5/00 H01R3/00 H01R13/66 H02M7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01F H02M H01R F21V H02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 063 468 A (OBSTA) 27 December 2000 (2000-12-27)	1-4, 6-10, 14, 17, 22, 27-34, 36-42
Y	paragraphs '0024! - '0026!, '0029!, '0034!; figure 2 paragraphs '0049! - '0051!; figures 6,7 ----- -/--	8, 11-13



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

7 September 2004

Date of mailing of the international search report

06/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 02/35578 A (TYSON LAWRENCE SAMUEL ; MICROLIGHTS LTD (GB)) 2 May 2002 (2002-05-02)</p> <p>page 15, lines 4-27; figure 1 page 16, lines 10-26; figures 3-5 page 19, line 13 - page 22, line 9; figures 7,7a,7b page 24, lines 1-30; figures 9,10</p>	<p>1-3,17, 20,22, 23, 27-30, 32,34, 36,38, 39,41,42</p>
X	<p>EP 1 130 752 A (MATSUSHITA ELECTRIC WORKS LTD) 5 September 2001 (2001-09-05)</p>	<p>1-3,6,7, 17,21, 22,27, 28,38, 39,41,42</p>
Y	<p>paragraphs '0069! - '0071!; figure 1 paragraphs '0112!, '0113!; figures 24,25 paragraphs '0125! - '0127!; figure 38</p>	<p>8,11-13</p>
X	<p>EP 0 982 832 A (SUMITOMO WIRING SYSTEMS ; SUMITOMO ELECTRIC INDUSTRIES (JP)) 1 March 2000 (2000-03-01)</p>	<p>1-3,14, 22,27, 28,38-42</p>
Y	<p>paragraphs '0053! - '0057!; figure 2 paragraphs '0137! - '0140!; figure 30</p>	<p>11-13</p>
X	<p>DE 43 44 071 A (FEMBOECK JOSEF) 6 July 1995 (1995-07-06)</p>	<p>1-6,9, 14-16, 21,22, 27-32, 38-42</p>
Y	<p>column 2, lines 30-37 column 2, line 47 - column 3, line 9 column 3, lines 21-50 column 3, line 61 - column 4, line 16 column 7, lines 4-22</p>	<p>8,11-13</p>
X	<p>GB 1 366 134 A (VICTOR PRODUCTS LTD) 11 September 1974 (1974-09-11) cited in the application</p> <p>page 1, lines 10-15 page 2, lines 38-44; figures 1,2 page 3, lines 16-25</p> <p style="text-align: center;">-/--</p>	<p>1,2,17, 22,27, 28,38, 39,41,42</p>

## INTERNATIONAL SEARCH REPORT

PCT /GB2004/001897

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 4 303 902 A (LESSTER LABAN E ET AL) 1 December 1981 (1981-12-01) cited in the application</p> <p>column 1, lines 10-23 column 2, line 66 - column 3, line 18; figure 2 column 3, line 55 - column 4, line 25; figure 4</p>	1-3, 15, 22, 27, 28, 32, 33, 38-42
X	<p>US 2002/008973 A1 (BOYS JOHN TALBOT ET AL) 24 January 2002 (2002-01-24)</p> <p>abstract paragraphs '0068! - '0071!; figure 2 paragraphs '0076! - '0088!; figures 4-8 paragraphs '0116!, '0117!</p>	1, 3-5, 17-19, 22, 32, 36, 38
Y	<p>DAVID R. LIDE: "CRC Handbook of Chemistry and Physics, 79th Edition" 1998, CRC PRESS, BOCA RATON, XP002295048 ISBN: 0-8493-0479-2 page 12121</p>	11-13
Y	<p>US 4 713 740 A (DRABING RICHARD B) 15 December 1987 (1987-12-15) cited in the application abstract</p>	8

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT /GB2004/001897

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1063468	A	27-12-2000	FR 2795483 A1 EP 1063468 A1	29-12-2000 27-12-2000
WO 0235578	A	02-05-2002	AU 1072202 A WO 0235578 A1 GB 2372380 A ,B	06-05-2002 02-05-2002 21-08-2002
EP 1130752	A	05-09-2001	JP 2001238373 A JP 2002078248 A EP 1130752 A2 US 2001017781 A1	31-08-2001 15-03-2002 05-09-2001 30-08-2001
EP 0982832	A	01-03-2000	JP 10106867 A JP 10106868 A JP 10106869 A JP 10108376 A EP 0982832 A2 CN 1186366 A CN 1175777 A EP 0823766 A1 EP 0823767 A1 JP 10106362 A US 2003021834 A1 US 5909099 A	24-04-1998 24-04-1998 24-04-1998 24-04-1998 01-03-2000 01-07-1998 11-03-1998 11-02-1998 11-02-1998 24-04-1998 30-01-2003 01-06-1999
DE 4344071	A	06-07-1995	DE 4344071 A1	06-07-1995
GB 1366134	A	11-09-1974	US 4303902 A CA 1122666 A1 CA 1177206 A1 DE 3032320 A1 DE 3222458 A1 FR 2464544 A1 FR 2507884 A1 GB 2058475 A ,B GB 2100592 A ,B JP 58001430 A JP 56036112 A NL 8202136 A SE 8103840 A US 4419783 A ES 8304786 A1	01-12-1981 27-04-1982 06-11-1984 10-09-1981 20-01-1983 06-03-1981 24-12-1982 08-04-1981 06-01-1983 06-01-1983 09-04-1981 17-01-1983 19-12-1982 13-12-1983 16-06-1983
US 4303902	A	01-12-1981	GB 1366134 A CA 1122666 A1 CA 1177206 A1 DE 3032320 A1 DE 3222458 A1 FR 2464544 A1 FR 2507884 A1 GB 2058475 A ,B GB 2100592 A ,B JP 58001430 A JP 56036112 A NL 8202136 A SE 8103840 A US 4419783 A ES 8304786 A1	11-09-1974 27-04-1982 06-11-1984 10-09-1981 20-01-1983 06-03-1981 24-12-1982 08-04-1981 06-01-1983 06-01-1983 09-04-1981 17-01-1983 19-12-1982 13-12-1983 16-06-1983

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT /GB2004/001897

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002008973 A1	24-01-2002	AU 682120 B2	18-09-1997
		AU 2810395 A	16-02-1996
		EP 1335477 A2	13-08-2003
		EP 0786165 A1	30-07-1997
		WO 9602970 A1	01-02-1996
		NZ 288765 A	22-09-1997
US 4713740 A	15-12-1987	AU 4631485 A	25-02-1986
		EP 0188570 A1	30-07-1986
		WO 8601048 A1	13-02-1986